

**METHODS AND APPARATUS FOR USE IN COMMUNICATING VOICE AND  
HIGH SPEED DATA IN A WIRELESS COMMUNICATION SYSTEM**

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**ABSTRACT OF THE DISCLOSURE**

10 A fixed wireless system (FWS) utilizing Orthogonal Frequency Division  
Multiplexing (OFDM) communication techniques is spectrally efficient and responsive  
to communications involving both voice and high speed data, such as Internet data.  
The FWS includes a wireless base unit; a plurality of fixed wireless remote units; a  
plurality of wireless data traffic channels available between the wireless base unit and  
the plurality of fixed wireless remote units; and a plurality of wireless voice traffic  
channels available between the wireless base unit and the plurality of fixed wireless  
remote units. Each wireless traffic channel is identifiable by a unique combination of  
frequency and time slots. Each wireless data traffic channel is used for carrying high  
speed data in addressed data packets to and from the plurality of fixed wireless remote  
units. On the other hand, each wireless voice traffic channel can be assigned and  
dedicated to a particular voice communication call involving one of the plurality of  
20 fixed wireless remote units for carrying voice data of the call.